CC - DWPC/FOS/RU

COMPLIANCE SAMPLING INSPECTION

ILLINOIS BIRMINGHAM & BOLT
(KANKAKEE COUNTY)

Industrial Wastewater
Treatment - IL0035297

INSPECTION DATE:

June 13, 1985

INTERVIEWED:

Gene Satori, Mill Manager
Edward Maynard, Safety
Supervisor

On the above date a Compliance Sampling Inspection was conducted at the subject facility. Form 3560-3 (CSI) is attached for reference.

Facility Description

This facility manufactures bolt and finished steel (rods) from scrap metal. The plant is located on McKnight Road, west of Route 50, just north of the town of Bourbonnais. The two NPDES discharges are as follows:

001 - Consists of stormwater runoff from the warehouse and manufacturing area. Treatment consists of an oil-water separator. The effluent is discharged to a ditch that is tributary to Soldier Creek. At the time of inspection the separator itself was full of oily matter and surrounded by bushes at least seven feet high.

002 - The waste stream consists of recirculating cooling water for the rolling mill. The cooling water enters a three-stage pond that has the ability to discharge at high levels. The ponds were extremely oily, and obviously at very high temperatures at the time of visit. A sprayer was installed to keep the temperature down. The pond was discharging at the time of visit. Signs of heavy oil were visible on the stained rocks at the outfall. The receiving stream is also a tributary to Soldier Creek.

The plant has been under new management since January of 1984, which is the issuance date of Illinois Birmingham and Bolts new permit. Gene Satori, the present mill manager stated he was unaware of the requirements of his NPDES permit. When he "reviewed" it he "just noted the expiration date then filed it."

O&M Items

During the inspection these deficiences were noted:

1. Operator's Certification - Presently this facility is without a certified operator (Class K), which is needed for an industrial treatment facility. Recently the mill manager hired Ed Maynard as safety supervisor. Maynard's duties would include all

Environmental permits. He also stated that he recently enlisted the services of Water Environmental Tech, Inc. of Peru, Illinois, as a consultant. According to Maynard, they were one of the companies referred to him by Gary Reside of the IEPA Compliance Assurance Section in Springfield.

During the inspection, Maynard expressed confusion at the fact that two discharges were listed in the NPDES permit. He was under the impression that 002 (the ponds) were 001, and had no notion what 002 was. I informed him that 001 was a separate discharge and showed him the oil separator. He said he had no idea that this facility existed and neither did the consultant.

2. Records and Reports - There are no operating logs or records for any of the discharges or their treatment facilities, no records of when the sprayers were installed, no records of when oil has been removed from the ponds. Additionally, no written records of monitoring or sampling of any kind were available.

NPDES Violations

Monitoring and Reporting - No Discharge Monitoring Reports have been submitted regularly from Illinois Birmingham & Bolt since 1977, when the company went under the name of Jones and McKnight. At the time, Jesse Prittchert was the certified Class K operator. As a result of a pre-enforcement conference on May 2, 1982, attended by Ernest J. Mooney, the plant manager at the time, Illinois Birmingham & Bolt agreed to start monitoring for its NPDES parameters. According to a follow-up letter the company contacted Industrial Analytical Labs in Bourbonnais to perform all testing and fill out reports. One DMR was submitted, unsigned, in November of 1982, under the name of "Principal Executive Officer," - the name typed was Paul W. Wiedenbach, a former employee of Industrial Analytical Labs. The report showed violations in Total Suspended Solids, Oils and Grease and Fecal Coliform, which at the time was a parameter on their expired permit. The TSS for one unspecified discharge showed a concentration of 122 mg/l and FOG of 62.8 mg/l. No further testing is on record at the Industrial Analytical Lab from that period and no further DMRs have been submitted to this Agency.

According to the present mill manager, before Illinois Birmingham & Bolt received a Compliance Inquiry Letter from IEPA dated in February, 1985, addressing non-submittal of DMRs, he was totally unaware of this requirement. Edward Maynard stated that he did take a sample to Industrial Analytical Labs but wasn't sure of the date or what he tested for.Sandy Benjamin of Industrial Analytical Labs, informed this writer that her lab has performed

one test according to the NPDES and has sent Illinois Birmingham & Bolt a price quote for further testing.

Flow Measurement - Illinois Birmingham & Bolts present permit asks for flow to be measured when monitoring.On the aforementioned last DMR submitted to this Agency,the flow for both 001 and 002 was listed as N.A. During the inspection it was noted there was no way under present conditions flow can be accurately measured from each discharge.

The outfall pipe from the 001 oil separator at the time of visit was at the same water level as the receiving ditch making the determination of flow impossible. Oil separators of this type usually have an overflow weir (most frequently a V-notch type) in order for the flow to be measured at least by the bucket-times method. Although the 002 outfall appeared to be above the water level of the receiving ditch, it was partially covered by rocks (see photo) making any kind of flow measurement impossible.

Effluent - On the present permit, the concentration limits for TSS and FOG, for both 001 and 002, are an average of 15 mg/l and a maximum of 30 mg/l. However, the permit calls for a sampling frequency of a grab sample once a month, making the average and maximum one and the same.

At the time of inspection a grab sample was taken near the overflow pipe at the 001 oil separator. As mentioned earlier, the flow was undeterminable. The lab results showed a TSS of 130 mg/l.

A sample was also taken at the outfall of discharge 002. The lab results showed a FOG concentration of 16 mg/l and a TSS concentration of 160 mg/l. The temperature of the effluent was 95° F, which is just at the temperature limit for June, under Special Condition 5 under the present permit.

Summary - Attached to this inspection are photos taken on May 30, 1985 during a reconnaissance inspection. It is recommended that the O&M deficiencies and NPDES violations be addressed by Region 2.

Chris Kallis

Chris Kallis, E.P.S.

CK:bh

6/26/85

Form Approved
OMB No. 158-R0073

NPDES COMPLIANCE INSPECTION REPORT *(Coding Instructions on back of last page)*

TRANSACTION CODE	NPDES	YR	MO	DA	TYPE	INSPECTOR	FAC TYPE	TIME
N	5 IL0032917	85	06	12	E	S	1	a.m. / p.m.

REMARKS

ADDITIONAL

SECTION A - Permit Summary

NAME AND ADDRESS OF FACILITY *(Include County, State and ZIP code)*	EXPIRATION DATE
Illinois Birmingham + Bolt McKnight Road Kankakee, Illinois, 60901	Dec-1-85 ISSUANCE DATE Jan-9-84

RESPONSIBLE OFFICIAL	TITLE	PHONE
Gene Satori	mill manager	815-937-3127
FACILITY REPRESENTATIVE	TITLE	PHONE
Ed maynard	safety supervisor	"

SECTION B - Effluent Characteristics *(Additional sheets attached _____)* no data available

PARAMETER/ OUTFALL		MINIMUM	AVERAGE	MAXIMUM	ADDITIONAL
	SAMPLE MEASUREMENT				
	PERMIT REQUIREMENT				
	SAMPLE MEASUREMENT				
	PERMIT REQUIREMENT				
	SAMPLE MEASUREMENT				
	PERMIT REQUIREMENT				
	SAMPLE MEASUREMENT				
	PERMIT REQUIREMENT				
	SAMPLE MEASUREMENT				
	PERMIT REQUIREMENT				

SECTION C - Facility Evaluation *(S = Satisfactory, U = Unsatisfactory, N/A = Not applicable)*

S	EFFLUENT WITHIN PERMIT REQUIREMENTS	U	OPERATION AND MAINTENANCE	U	SAMPLING PROCEDURES
S	RECORDS AND REPORTS	U	COMPLIANCE SCHEDULE	U	LABORATORY PRACTICES
S	PERMIT VERIFICATION	U	FLOW MEASUREMENTS		OTHER:

SECTION D - Comments

SECTION E - Inspection/Review

SIGNATURES	AGENCY	DATE
INSPECTED BY Chris Kallis	IEPA	7-1-85
INSPECTED BY		
REVIEWED BY	IEPA	7/16/85

ENFORCEMENT DIVISION USE ONLY

COMPLIANCE STATUS

☐ COMPLIANCE

☐ NONCOMPLIANCE

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Sections F thru L: Complete on all inspections, as appropriate. N/A = Not Applicable

PERMIT NO. dl0035297

SECTION F - Facility and Permit Background

ADDRESS OF PERMITTEE IF DIFFERENT FROM FACILITY *(Including City, County and ZIP code)*
dlinois Birmingham + Bolt
po Box 628
Kankakee, dlinois

DATE OF LAST PREVIOUS INVESTIGATION BY EPA/STATE

FINDINGS

SECTION G - Records and Reports

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. ☐ YES ☑ NO ☐ N/A *(Further explanation attached ____)*
DETAILS:

(a) ADEQUATE RECORDS MAINTAINED OF:			
(i) SAMPLING DATE, TIME, EXACT LOCATION	☐ YES	☑ NO	☐ N/A
(ii) ANALYSES DATES, TIMES	☐ YES	☑ NO	☐ N/A
(iii) INDIVIDUAL PERFORMING ANALYSIS	☐ YES	☑ NO	☐ N/A
(iv) ANALYTICAL METHODS/TECHNIQUES USED	☐ YES	☑ NO	☐ N/A
(v) ANALYTICAL RESULTS *(e.g., consistent with self-monitoring report data)*	☐ YES	☑ NO	☐ N/A
(b) MONITORING RECORDS *(e.g., flow, pH, D.O., etc.)* MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS *(e.g. continuous monitoring instrumentation, calibration and maintenance records).*	☐ YES	☑ NO	☐ N/A
(c) LAB EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS KEPT.	☐ YES	☐ NO	☑ N/A
(d) FACILITY OPERATING RECORDS KEPT INCLUDING OPERATING LOGS FOR EACH TREATMENT UNIT.	☐ YES	☑ NO	☐ N/A
(e) QUALITY ASSURANCE RECORDS KEPT.	☐ YES	☑ NO	☐ N/A
(f) RECORDS MAINTAINED OF MAJOR CONTRIBUTING INDUSTRIES *(and their compliance status)* USING PUBLICLY OWNED TREATMENT WORKS.	☐ YES	☐ NO	☑ N/A

SECTION H - Permit Verification

INSPECTION OBSERVATIONS VERIFY THE PERMIT. ☑ YES ☐ NO ☐ N/A *(Further explanation attached ____)*
DETAILS:

(a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE.	☐ YES	☑ NO	☐ N/A
(b) FACILITY IS AS DESCRIBED IN PERMIT.	☑ YES	☐ NO	☐ N/A
(c) PRINCIPAL PRODUCT(S) AND PRODUCTION RATES CONFORM WITH THOSE SET FORTH IN PERMIT APPLICATION.	☑ YES	☐ NO	☐ N/A
(d) TREATMENT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION.	☑ YES	☐ NO	☐ N/A
(e) NOTIFICATION GIVEN TO EPA/STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES.	☐ YES	☐ NO	☐ N/A
(f) ACCURATE RECORDS OF RAW WATER VOLUME MAINTAINED.	☐ YES	☑ NO	☐ N/A
(g) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT.	☑ YES	☐ NO	☐ N/A
(h) CORRECT NAME AND LOCATION OF RECEIVING WATERS.	☑ YES	☐ NO	☐ N/A
(i) ALL DISCHARGES ARE PERMITTED.	☑ YES	☐ NO	☐ N/A

SECTION I - Operation and Maintenance

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. ☐ YES ☑ NO ☐ N/A *(Further explanation attached ____)*
DETAILS:

(a) STANDBY POWER OR OTHER EQUIVALENT PROVISIONS PROVIDED.	☐ YES	☐ NO	☑ N/A
(b) ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.	☐ YES	☐ NO	☑ N/A
(c) REPORTS ON ALTERNATE SOURCE OF POWER SENT TO EPA/STATE AS REQUIRED BY PERMIT.	☐ YES	☐ NO	☑ N/A
(d) SLUDGES AND SOLIDS ADEQUATELY DISPOSED.	☐ YES	☐ NO	☐ N/A
(e) ALL TREATMENT UNITS IN SERVICE.	☑ YES	☐ NO	☐ N/A
(f) CONSULTING ENGINEER RETAINED OR AVAILABLE FOR CONSULTATION ON OPERATION AND MAINTENANCE PROBLEMS.	☑ YES	☐ NO	☐ N/A
(g) QUALIFIED OPERATING STAFF PROVIDED.	☐ YES	☑ NO	☐ N/A
(h) ESTABLISHED PROCEDURES AVAILABLE FOR TRAINING NEW OPERATORS.	☐ YES	☑ NO	☐ N/A
(i) FILES MAINTAINED ON SPARE PARTS INVENTORY, MAJOR EQUIPMENT SPECIFICATIONS, AND PARTS AND EQUIPMENT SUPPLIERS.	☐ YES	☑ NO	☐ N/A
(j) INSTRUCTIONS FILES KEPT FOR OPERATION AND MAINTENANCE OF EACH ITEM OF MAJOR EQUIPMENT.	☐ YES	☑ NO	☐ N/A
(k) OPERATION AND MAINTENANCE MANUAL MAINTAINED.	☐ YES	☑ NO	☐ N/A
(l) SPCC PLAN AVAILABLE.	☐ YES	☑ NO	☐ N/A
(m) REGULATORY AGENCY NOTIFIED OF BY PASSING. *(Dates ____)*	☐ YES	☐ NO	☑ N/A
(n) ANY BY-PASSING SINCE LAST INSPECTION.	☐ YES	☐ NO	☑ N/A
(o) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED.	☑ YES	☐ NO	☐ N/A

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PERMIT NO. [illegible]

SECTION J - Compliance Schedules

PERMITTEE IS MEETING COMPLIANCE SCHEDULE. ☐ YES ☐ NO ☐ N/A *(Further explanation attached _____)*

CHECK APPROPRIATE PHASE(S):

- ☐ (a) THE PERMITTEE HAS OBTAINED THE NECESSARY APPROVALS FROM THE APPROPRIATE AUTHORITIES TO BEGIN CONSTRUCTION.
- ☐ (b) PROPER ARRANGEMENT HAS BEEN MADE FOR FINANCING *(mortgage commitments, grants, etc.)*.
- ☐ (c) CONTRACTS FOR ENGINEERING SERVICES HAVE BEEN EXECUTED.
- ☐ (d) DESIGN PLANS AND SPECIFICATIONS HAVE BEEN COMPLETED.
- ☐ (e) CONSTRUCTION HAS COMMENCED.
- ☐ (f) CONSTRUCTION AND/OR EQUIPMENT ACQUISITION IS ON SCHEDULE.
- ☐ (g) CONSTRUCTION HAS BEEN COMPLETED.
- ☐ (h) START-UP HAS COMMENCED.
- ☐ (i) THE PERMITTEE HAS REQUESTED AN EXTENSION OF TIME.

SECTION K - Self-Monitoring Program

Part 1 – Flow measurement *(Further explanation attached _____)*

PERMITTEE FLOW MEASUREMENT MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT. DETAILS:	☐ YES	☑ NO	☐ N/A
(a) PRIMARY MEASURING DEVICE PROPERLY INSTALLED.	☐ YES	☑ NO	☐ N/A
TYPE OF DEVICE: ☐ WEIR ☐ PARSHALL FLUME ☐ MANOMETER ☐ VENTURI METER ☐ OTHER *(Specify _____)*			
(b) CALIBRATION FREQUENCY ADEQUATE. *(Date of last calibration _____)*	☐ YES	☐ NO	☑ N/A
(c) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED AND MAINTAINED.	☐ YES	☑ NO	☐ N/A
(d) SECONDARY INSTRUMENTS *(totalizers, recorders, etc.)* PROPERLY OPERATED AND MAINTAINED.	☐ YES	☑ NO	☐ N/A
(e) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOW RATES.	☐ YES	☑ NO	☐ N/A

Part 2 – Sampling *(Further explanation attached _____)*

PERMITTEE SAMPLING MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT. DETAILS:	☐ YES	☑ NO	☐ N/A
(a) LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	☐ YES	☑ NO	☐ N/A
(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT.	☐ YES	☑ NO	☐ N/A
(c) PERMITTEE IS USING METHOD OF SAMPLE COLLECTION REQUIRED BY PERMIT. IF NO, ☐ GRAB ☐ MANUAL COMPOSITE ☐ AUTOMATIC COMPOSITE FREQUENCY ____	☐ YES	☑ NO	☐ N/A
(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE.	☐ YES	☐ NO	☑ N/A
(i) SAMPLES REFRIGERATED DURING COMPOSITING	☐ YES	☐ NO	☑ N/A
(ii) PROPER PRESERVATION TECHNIQUES USED	☐ YES	☐ NO	☑ N/A
(iii) FLOW PROPORTIONED SAMPLES OBTAINED WHERE REQUIRED BY PERMIT	☐ YES	☐ NO	☑ N/A
(iv) SAMPLE HOLDING TIMES PRIOR TO ANALYSES IN CONFORMANCE WITH 40 CFR 136.3	☐ YES	☐ NO	☑ N/A
(e) MONITORING AND ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY PERMIT.	☐ YES	☐ NO	☑ N/A
(f) IF (e) IS YES, RESULTS ARE REPORTED IN PERMITTEE'S SELF-MONITORING REPORT.	☐ YES	☐ NO	☐ N/A

Part 3 – Laboratory *(Further explanation attached _____)*

PERMITTEE LABORATORY PROCEDURES MEET THE REQUIREMENTS AND INTENT OF THE PERMIT. DETAILS:	☐ YES	☑ NO	☐ N/A
(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED. *(40 CFR 136.3)*	☐ YES	☑ NO	☐ N/A
(b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED.	☐ YES	☐ NO	☑ N/A
(c) PARAMETERS OTHER THAN THOSE REQUIRED BY THE PERMIT ARE ANALYZED.	☐ YES	☑ NO	☐ N/A
(d) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.	☐ YES	☐ NO	☐ N/A
(e) QUALITY CONTROL PROCEDURES USED.	☐ YES	☑ NO	☐ N/A
(f) DUPLICATE SAMPLES ARE ANALYZED. _____ % OF TIME.	☐ YES	☑ NO	☐ N/A
(g) SPIKED SAMPLES ARE USED. _____ % OF TIME.	☐ YES	☑ NO	☐ N/A
(h) COMMERCIAL LABORATORY USED. A See Narrative	☐ YES	☑ NO	☐ N/A
(i) COMMERCIAL LABORATORY STATE CERTIFIED.	☐ YES	☑ NO	☐ N/A

LAB NAME _____

LAB ADDRESS _____

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PERMIT NO. d1003529?

SECTION L - Effluent/Receiving Water Observations *(Further explanation attached _____)*

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOAT SOL	COLOR	OTHER
001	slight	Visible	high	none	yes	grey	
002	slight	none	high	none	yes	—	

(Sections M and N: Complete as appropriate for sampling inspections)

SECTION M - Sampling Inspection Procedures and Observations *(Further explanation attached _____)*

- ☒ GRAB SAMPLES OBTAINED
- ☐ COMPOSITE OBTAINED
- ☐ FLOW PROPORTIONED SAMPLE
- ☐ AUTOMATIC SAMPLER USED
- ☐ SAMPLE SPLIT WITH PERMITTEE
- ☐ CHAIN OF CUSTODY EMPLOYED
- ☐ SAMPLE OBTAINED FROM FACILITY SAMPLING DEVICE

COMPOSITING FREQUENCY _____ PRESERVATION _____

SAMPLE REFRIGERATED DURING COMPOSITING: ☐ YES ☐ NO

SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE _____

SECTION N - Analytical Results *(Attach report if necessary)*

Lab results have not yet been received as of June-28-85.

C05916 JUN13 85

ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF WATER POLLUTION CONTROL

WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

SAMPLE COLLECTED BY: G Kallis

LOCATION OF SAMPLING POINT: 002 Illinois Birmingham + Bolt

BASIN: Kankakee | SUB-BASIN (IF NONE ENTER "DIRECT"): Spider Cr | TRIBUTARY: | MINOR TRIBUTARY:

SENT ORIGINAL OF RESULTS TO: May Ward — SUB-BASIN OFFICE ☐ PERFORMANCE MEASUREMENT SECTION, SPRINGFIELD | SEND COPY OF RESULTS TO: ☐ EDP SERVICE SECTION, SPRINGFIELD

CARD COL. — CARD NO. 1		CARD COL. — CARD NO. 2		CARD COL. — CARD NO. 3	
2–5 BASIN CODE	FI	6–7 PLANT OR STATION NO.	01	8–10 FIPS COUNTY CODE (USE ONLY FOR PLANTS)	091
11–17 LAB ID NO.	~~0505916~~	11–17 LAB ID NO.	C505916	11–17 LAB ID NO.	~~0505916~~
18 SAMPLE TYPE CODE (SEE LIST BELOW)	F	18 SAMPLE TYPE CODE		18 SAMPLE TYPE CODE	
19–20 YEAR	85	ARSENIC	0.002	PLANKTON (NO./ML) 19–23	
21–22 MONTH	06	BARIUM 19–22	0.0	FLUORIDE 24–26	
23–24 DAY	12	BORON 23–25	0.3	CHLORIDE 27–30	
25–26 HOUR (NEAREST)	01	CADMIUM 26–28	0.00	SULFATE AS SO4 31–34	
27 TIME OF DAY (A,P,N,I)	P	CHROMIUM (HEX) 29–32	0.00	TOTAL SULFUR AS S 33–37	
28–30 WATER TEMPERATURE (DEG. F.)		CHROMIUM (TRI) 33–35		OIL 38–42	1.2
31–33 FIELD D.O.		CHROMIUM (TOTAL) 36–38	0.00	M.B.A.S. 43–46	
PH (UNITS) 34–36	7.7	COPPER 39–41	0.02	CARBON CHLOROFORM EXTRACT 47–50	
TOTAL PHOSPHORUS 37–40		CYANIDE 42–45	0.00	TURBIDITY (UNITS) 51–54	
AVG. BOD.	9	IRON (TOTAL) 46–49	0.5	RESIDUE ON EVAPORATION 55–58	
~~[illegible]~~ 45–48	~~[illegible]~~	IRON (DISSOLVED) 50–53		VOLATILE SUSP. SOLIDS 59–62	4
PHENOLS 49–52		LEAD 54–56	0.00	COLOR (UNITS) 63–65	
FECAL COLI (NO./100ML)		MANGANESE 57–60	0.16	HARDNESS 66–68	
~~[illegible]~~ 60–63	~~[illegible]~~	MERCURY (MICROGM/L) 61–63		ALKALINITY 69–71	
NITRATE + NITRITE AS N 64–66		NICKEL 64–66	0.0	TOTAL ACIDITY 72–74	
ORGANIC N 67–69		SELENIUM 67–69	0.00	FREE ACIDITY 75–77	
TOTAL N 70–72		SILVER 70–72	0.00		
T.D.S./E.C. 73–76		ZINC 73–76	0.0		
TOTAL SUSP. SOLIDS 77–80	160	77–79			

OTHER TESTS REQUIRED — RESULTS

Test	Result
Conductivity	526
Berylium	0.00

ALL RESULTS EXPRESSED AS MG/L EXCEPT WHERE OTHERWISE STATED.

PHYSICAL OBSERVATIONS & COMMENTS (ABNORMAL COLOR, ODOR, FLOATING MATTER, OIL, SLUDGE, TURBIDITY, WEATHER), LOCATION OF SAMPLING POINT:

SAMPLE TYPE CODES:
- A = DOMESTIC WASTE ONLY
- F = INDUSTRIAL WASTE ONLY
- I = MIXED DOMESTIC & INDUSTRIAL WASTE
- S = STREAM, LAKE, OR RECEIVING WATER QUALITY
- T = MINE DRAINAGE OR WASTE
- X = OTHER OR TYPE UNKNOWN

SIGN BELOW FOR EFFLUENT SAMPLE

TRANSPORTED BY: G Kallis

RECEIVED BY ______ TIME ______

TRANSPORTED BY ______

RECEIVED BY ______ TIME ______

FOR LABORATORY USE ONLY

SAMPLE RECEIVED BY: [illegible]

DATE REC'D: 6-13-85 TIME REC'D: 7:45

DATE ANALYSES COMPLETED: ______

DATE RESULTS FORWARDED: SEP. 10. 1985

TOTAL TESTS REQUESTED ______ TESTS RUN ______

LAB SECTION: [illegible] SUPERVISOR: J Daugherty

IL 532-0006
WPC 129a 3/80